

## ENGINEERING CHANGE NOTICE

Page 1 of 3

1. ECN 193254

Proj.  
ECN

2. ECN Category (mark one) Supplemental <input checked="" type="checkbox"/> Direct Revision <input type="checkbox"/> Change ECN <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersedeure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>		3. Originator's Name, Organization, MSIN, and Telephone No. William E. Davis/16410/S6-70/2-0014		4. Date 03/26/93	
		5. Project Title/No./Work Order No. D6T11		6. Bldg./Sys./Fac. No. N/A	
		8. Document Numbers Changed by this ECN (includes sheet no. and rev.) WHC-SD-WM-PLN-029, Rev 1		9. Related ECN No(s).	
				10. Related PO No.	
11a. Modification Work  [ ] Yes (fill out Blk. 11b) [X] No (NA Blks. 11b, 11c, 11d)		11b. Work Package No. N/A		11c. Modification Work Complete N/A  Cog. Engineer Signature & Date	
				11d. Restored to Original Condition (Temp. or Standby ECN only) N/A  Cog. Engineer Signature & Date	
12. Description of Change I. Page 11 Change method for Nitrogen and Nitrite from 354.1 to 300.0 II. Page 11 Delete acidity and its method from Table 3 III. Page 11 Add statement to Table 3 Listed Below or in QAPP (WHC 1992b) IV. Page 11 Add Nitrate with method 300.0 to Table 3  Impact Level 3EQ was chosen because the changes are Impact level 3 to an engineering document and the changes need to be reviewed by Effluent Emission Monitoring and QA.					
13a. Justification (mark one) Criteria Change [ ] Design Improvement [X] Environmental [ ] As-Found [ ] Facilitate Const. [ ] Const. Error/Omission [ ] Design Error/Omission [ ]					
13b. Justification Details I. Method 354.1 is unavailable and 300.0 method will provide the same information on Nitrogen and Nitrite rinse. II. Alkalinity is already being measured; acidity and its method will not be needed. III. Allows methods listed in QAPP to be used. IV. Need Nitrate analysis.					
14. Distribution (include name, MSIN, and no. of copies) S. A. Brisbin H4-16 (1) C. D. Morrison-Beyer S0-61 (1) W. W. Bowen S6-65 (1) D. R. Speer R1-48 (1) S. A. Burris T1-30 (1) M. S. Hendrix H4-23 (1) L. P. Diediker T1-30 (1) D. L. Halgren S6-70 (1) J. E. Hyatt S0-61 (1)					
RELEASE STAMP OFFICIAL RELEASE BY WHC DATE APR 20 1993 STA. #2					

# ENGINEERING CHANGE NOTICE

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1. ECN (use no. from pg. 1)

193254

## 15. Design Verification Required

☐ Yes  
☒ No

## 16. Cost Impact

### ENGINEERING

Additional ☐ N/A  
Savings ☐

### CONSTRUCTION

Additional ☐ N/A  
Savings ☐

## 17. Schedule Impact (days)

Improvement ☐ N/A  
Delay ☐

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	<input type="checkbox"/>	Seismic/Stress Analysis	<input type="checkbox"/>	Tank Calibration Manual	<input type="checkbox"/>
Functional Design Criteria	<input type="checkbox"/>	Stress/Design Report	<input type="checkbox"/>	Health Physics Procedure	<input type="checkbox"/>
Operating Specification	<input type="checkbox"/>	Interface Control Drawing	<input type="checkbox"/>	Spares Multiple Unit Listing	<input type="checkbox"/>
Criticality Specification	<input type="checkbox"/>	Calibration Procedure	<input type="checkbox"/>	Test Procedures/Specification	<input type="checkbox"/>
Conceptual Design Report	<input type="checkbox"/>	Installation Procedure	<input type="checkbox"/>	Component Index	<input type="checkbox"/>
Equipment Spec.	<input type="checkbox"/>	Maintenance Procedure	<input type="checkbox"/>	ASME Coded Item	<input type="checkbox"/>
Const. Spec.	<input type="checkbox"/>	Engineering Procedure	<input type="checkbox"/>	Human Factor Consideration	<input type="checkbox"/>
Procurement Spec.	<input type="checkbox"/>	Operating Instruction	<input type="checkbox"/>	Computer Software	<input type="checkbox"/>
Vendor Information	<input type="checkbox"/>	Operating Procedure	<input type="checkbox"/>	Electric Circuit Schedule	<input type="checkbox"/>
OM Manual	<input type="checkbox"/>	Operational Safety Requirement	<input type="checkbox"/>	ICRS Procedure	<input type="checkbox"/>
FSAR/SAR	<input type="checkbox"/>	IEFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
Safety Equipment List	<input type="checkbox"/>	Cell Arrangement Drawing	<input type="checkbox"/>	Process Flow Chart	<input type="checkbox"/>
Radiation Work Permit	<input type="checkbox"/>	Essential Material Specification	<input type="checkbox"/>	Purchase Requisition	<input type="checkbox"/>
Environmental Impact Statement	<input type="checkbox"/>	Fac. Proc. Samp. Schedule	<input type="checkbox"/>	None	<input checked="" type="checkbox"/>
Environmental Report	<input type="checkbox"/>	Inspection Plan	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Permit	<input type="checkbox"/>	Inventory Adjustment Request	<input type="checkbox"/>		<input type="checkbox"/>

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision      Document Number/Revision      Document Number/Revision

## 20. Approvals

Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING		ARCHITECT-ENGINEER	
Cog Engineer <i>W. E. Davis</i>	<i>3/26/93</i>	PE	
Cog. Mgr <i>D. D. McAfee</i>	<i>3/26/93</i>	QA	
QA	<i>3/31/93</i>	Safety	
Safety N/A		Design	
Security N/A		Environ.	
Environ. <i>WED 3/26/93</i>	<i>3-29-93</i>	Other	
Projects/Programs N/A			
Tank Waste Remediation System N/A			
Facilities Operations N/A			
Restoration & Remediation N/A			
Operations & Support Services N/A			
IRM N/A			
Other Informal Review <i>C. D. Morrison-Beyer</i>	<i>3-31-93</i>		
M. S. Hendrix <i>M. Hendrix</i>	<i>3/29/93</i>		
D. R. Speer <i>WED 3/29/93</i>			

DEPARTMENT OF ENERGY

Signature or Letter No.

ADDITIONAL

B PLANT CHEMICAL SEWER SAMPLING AND ANALYSIS PLAN

Table 3. Analytical Methods

is Listed Below  
or in QAPP  
(WHC 1992b)

Analyte	Method of Analysis
Sulfides	9030
Semivolatile Organics	8270
Volatile Organics	8240
Chlorinated herbicides	8150
Organophosphorus Pesticides	8140
Organochlorine Pesticides and PCBs	8080
Tin	7870
Thallium	7841
Selenium	7740
Mercury	7470
Lead	7421
Chromium	7196
Arsenic	7060
Antimony	7041
Inductively Coupled Plasma	6010
Phenolics	420.1/9065/9066/9067
Total Organic Carbon	415.2/9060
Oil and Grease, total recoverable	413.2/9070/9071
Chemical Oxygen Demand	410.1
Biochemical Oxygen Demand	405.1
Sulfate	375.4
Phosphorus, all forms	365.2
Nitrogen and Nitrite	<del>354.1</del>
Nitrogen, Nitrate, Nitrite	353.3
<del>Nitrate</del> Ammonia	<del>350.1</del> 300.0
Fluoride	300.0
Total Cyanide	335.2
Chloride	300.0
Bromide	300.0
Alkalinity	310.1/310.2
<del>Acidity</del>	<del>305.2</del>
Residue	160.2
Total Dissolved Solids	160.1
pH	150.1/9040
Specific Conductance	120.1
Total Alpha	WHC approved laboratory method

300.0

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9002-680156

Date Received:  
4/19/93 KMB

# INFORMATION RELEASE REQUEST

Reference:  
WHC-CM-3-4

Complete for all Types of Release

<b>Purpose</b>		<b>ID Number (include revision, volume, etc.)</b> <del>WHC-SD-WM-PLN-029-Rev. 1</del>
<input type="checkbox"/> Speech or Presentation	<input type="checkbox"/> Reference	<b>List attachments.</b> ECN 193254
<input type="checkbox"/> Full Paper (Check only one suffix)	<input checked="" type="checkbox"/> Technical Report	
<input type="checkbox"/> Summary	<input type="checkbox"/> Thesis or Dissertation	<b>Date Release Required</b> 4/12/93
<input type="checkbox"/> Abstract	<input type="checkbox"/> Manual	
<input type="checkbox"/> Visual Aid	<input type="checkbox"/> Brochure/Flier	
<input type="checkbox"/> Speakers Bureau	<input type="checkbox"/> Software/Database	
<input type="checkbox"/> Poster Session	<input type="checkbox"/> Controlled Document	
<input type="checkbox"/> Videotape	<input type="checkbox"/> Other	

<b>Title</b> B Plant Chemical Sewer Sampling and Analysis Plan	<b>Unclassified Category</b> UC-	<b>Impact Level</b> 3E Q
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New or novel (patentable) subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).	Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)
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Copyrights? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has written permission been granted? <input type="checkbox"/> No <input type="checkbox"/> Yes (Attach Permission)	Trademarks? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)
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Complete for Speech or Presentation


<b>Title of Conference or Meeting</b>	<b>Group or Society Sponsoring</b>
<b>Date(s) of Conference or Meeting</b>	<b>City/State</b>
<b>Will proceedings be published?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Will material be handed out?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No

<b>Title of Journal</b>
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## CHECKLIST FOR SIGNATORIES

Review Required per WHC-CM-3-4	Yes	No	Reviewer - Signature Indicates Approval	Date
			Name (printed)	Signature
Classification/Unclassified Controlled Nuclear Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Patent - General Counsel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	OGC Memo 2/4/93	
Legal - General Counsel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	OGC Memo 2/4/93	
Applied Technology/Export Controlled Information or International Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
WHC Program/Project	<input checked="" type="checkbox"/>	<input type="checkbox"/>	D. R. Speer RI-48	4-19-93
Communications	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
RL Program/Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Publication Services	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MR. WACHICK	4/19/93
Other Program/Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

Information conforms to all applicable requirements. The above information is certified to be correct.

<b>References Available to Intended Audience</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP</b> Stamp is required before release. Release is contingent upon resolution of mandatory requirements. 
<b>Transmit to DOE-HQ/Office of Scientific and Technical Information</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>Author/Requestor (Printed/Signature)</b> W. E. Davis <i>W E Davis</i>	
<b>Date</b> 4/12/93	
<b>Intended Audience</b> <input type="checkbox"/> Internal <input type="checkbox"/> Sponsor <input checked="" type="checkbox"/> External	<b>Date Cancelled</b>
<b>Responsible Manager (Printed/Signature)</b> D. L. Halgren <i>D Halgren</i>	<b>Date Disapproved</b>
<b>Date</b> 4/12/93	